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short listing

Heuristic programmers and their gambling machines Nicholas V. Findler, Heinz Klein, R. Channing Johnson, Alexander Kowal, Zachary Levine, John Menig Proceedings of the 1974 annual conference

83%

Following our paper given at the IFIP Congress 71, another progres report is presented of our ongoing research efforts aimed at human decision making under uncertainty and risk. We have studied many aspects of human and machine learning processes, inductive and deductive inference making methods, how heuristic rules are formed and optimized by human players, and how similar results can be arrived at by machines. Although the investigations have been within the general framework of the game ...

Automatic recommendation of hot topics in discussion-type ৰী newsgroups (poster session)

82%

Hiromi Ozaku, Masao Utiyama, Masaki Murata, Kiyotaka Uchimoto, Hitoshi Ishara

Proceedings of the fifth international workshop on on Information retrieval with Asian languages November 2000

Applications of simulation in project management

80%



Proceedings of the 1979 winter simulation conference December 1979

Van Slyke introduced simulation as a method for the analysis of project networks in 1963. Since that time many new simulation procedures have been developed and/or adapted for use in project management. The purpose of this paper is to review the traditional simulation procedures that have been applied to project management and to present and discuss new developments regarding the application of simulation to project management.

Specifically, this paper will include coverage of simulation as ...

4 Methodologies for a real-time intelligent supervisory system for a hot strip mill finisher

Yutaka Miyabe, Csabe Biegl, Kazuhiko Kawamura Proceedings of the first international conference on Industrial & engineering applications of artificial intelligence & expert systems June 1988

This paper describes methodologies and the architecture used in a prototype intelligent supervisory system for hot strip finishing mills in steel manufacturing. The prototype system incorporates a knowledge-based supervisory layer in its top level. The supervisor gathers information from critical areas and warns the operator on abnormalities. The system takes advantage of an emerging artificial intelligence (AI) toolset in a virtually parallel processing environment and couples s ...

**5** Profile-driven program synthesis for evaluation of system power 80% dissipation

Cheng-Ta Hsieh , Massoud Pedram , Gaurav Mehta , Fred Rastgar Proceedings of the 34th annual conference on Design automation conference June 1997

**6** Preference-based decision making for cooperative

80%

80%

knowledge-based systems

Stephen T. C. Wong

ACM Transactions on Information Systems (TOIS) October 1994 Volume 12 Issue 4

Recent advances in cooperative knowledge-based systems (CKBS) offer significant promise for intelligent interaction between multiple AI systems for solving larger, more complex problems. In this paper, we propose a logical, qualitative problem-solving scheme for CKBS that uses social choice theory as a formal basis for making joint decisions and promoting conflict resolution. This scheme consists of three steps: (1) the selection of decision criteria and competing alternatives, (2) the form ...

7 A computer vision system for automated corn seed purity analysis

77%

Jack C. H. Chung , M. Litt , G. Leininger

Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems June 1990

Electrophoresis gel analysis is a viable technique for determining the purity of hybrid corn seeds. Visually analyzing the electrophoretic gel images is a very tedious and time-consuming task. In this paper, a computer vision system integrating image processing and pattern recognition techniques with domain-specific structural information to automate the electrophoresis gel scoring procedure is presented. A set of image processing algorithms are developed to perform extraction of the region ...

**8** Expert design tools for physical database design

77%

Rajiv Tewari

Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems September 1990

9 Agenda: a personal information manager

77%

S. Jerrold Kaplan, Mitchell D. Kapor, Edward J. Belove, Richard A. Landsman, Todd R. Drake
Communications of the ACM July 1990

Volume 33 Issue 7

The free-form, evolving, personal information that people deal with in the course of their daily activities requires more flexible data structures and data management systems than tabular data structures provide. A tool for managing personal information must conveniently handle freetextual data; allow for structure to evolve gracefully as the database grows; represent unnormalized data; and support data entry through database views. We have designed a new type of database t ...

**10** Query optimization in a memory-resident domain relational

77%

d calculus database system

Kyu-Young Whang , Ravi Krishnamurthy ACM Transactions on Database Systems (TODS) March 1990 Volume 15 Issue 1

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into

11 Integer programming vs. expert systems: an experimental

77%

d comparison

Vasant Dhar, Nicky Ranganathan Communications of the ACM March 1990 Volume 33 Issue 3

Expert system and integer programming formulations of an NP-complete constraint satisfaction problem are contrasted in terms of performance, ability to encode complex preferences, control of reasoning, and supporting incremental modification of solutions in response to changing input data.

**12** HyperIntelligence: the next frontier

77%

Sudha Ram, David A. Carlson Communications of the ACM March 1990

Volume 33 Issue 3

The authors discuss how mental models may be used to organize an individual's thoughts while forming a plan. A hypermedia system, SPRINT, is described which supports an explicit representation of a mental model as a network of associations among the elements of a strategic plan.

13 Mining e-commerce data

77%

**♣** Ron Kohavi

Proceedings of the seventh conference on Proceedings of the seventh ACM SIGKDD international conference on knowledge discovery and data mining August 2001

Organizations conducting Electronic Commerce (e-commerce) can greatly benefit from the insight that data mining of transactional and clickstream data provides. Such insight helps not only to improve the electronic channel (e.g., a web site), but it is also a learning vehicle for the bigger organization conducting business at brick-and-mortar stores. The e-commerce site serves as an early alert system for emerging patterns and a laboratory for experimentation. For successful data mining, several ...

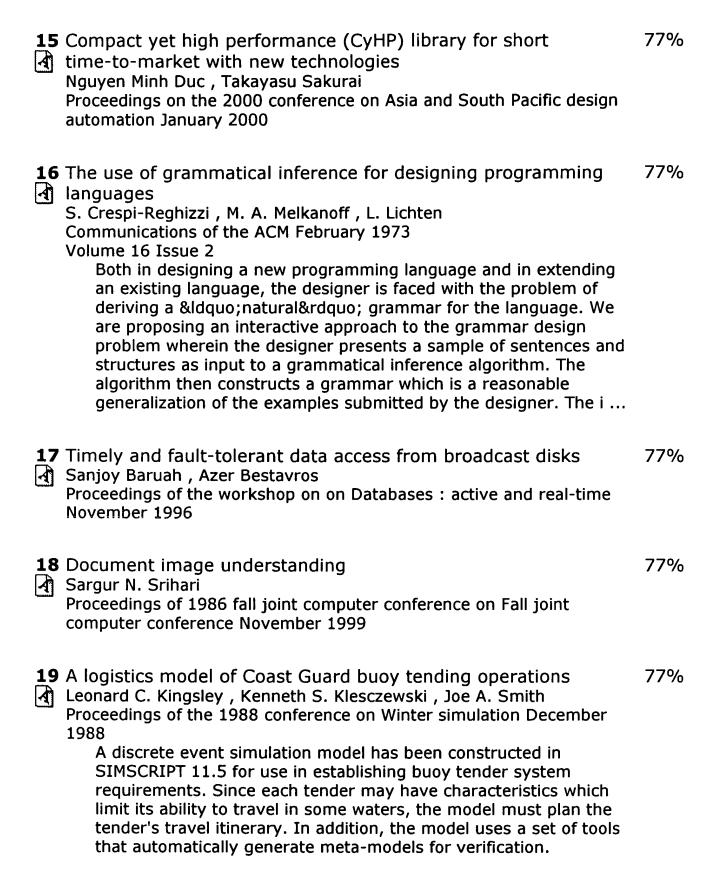
**14** Synchronous collaborative systems project

77%

নী Heather Craven

The Journal of Computing in Small Colleges, Proceedings of the sixth annual CCSC northeastern conference on The journal of computing in small colleges April 2001

### Volume 16 Issue 4





20 IBOTS

Luke S. Zettlemoyer , Robert St. Amant , Martin S. Dulberg Proceedings of the 1999 international conference on Intelligent user interfaces December 1998

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**21** Experiments in Japanese text retrieval and routing using the

77%

| ↑ NEAT system

Gareth J. F. Jones , Tetsuya Sakai , Masahiro Kajiura , Kazuo Sumita Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval August 1998

22 Reusing invariants

77%

Jun Rao , Kenneth A. Ross

ACM SIGMOD Record, Proceedings of ACM SIGMOD international conference on Management of data June 1998 Volume 27 Issue 2

Correlated queries are very common and important in decision support systems. Traditional nested iteration evaluation methods for such queries can be very time consuming. When they apply, query rewriting techniques have been shown to be much more efficient. But query rewriting is not always possible. When query rewriting does not apply, can we do something better than the traditional nested iteration methods? In this paper, we propose a new invariant technique to evaluate correlated gueries ...

23 A multilevel approach to intelligent information filtering

77%



J. Mostafa, S. Mukhopadhyay, M. Palakal, W. Lam
ACM Transactions on Information Systems (TOIS) October 1997
Volume 15 Issue 4

In information-filtering environments, uncertainties associated with changing interests of the user and the dynamic document stream must be handled efficiently. In this article, a filtering model is proposed that decomposes the overall task into subsystem functionalities and highlights the need for multiple adaptation techniques to cope with uncertainties. A filtering system, SIFTER, has been implemented based on the model, using established techniques in information retrieval and artificia ...

24 Machine interpretation of CAD data for manufacturing

77%

**applications** 

Qiang Ji , Michael M. Marefat ACM Computing Surveys (CSUR) September 1997 Volume 29 Issue 3

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

**25** Abstracting of legal cases

77%

- Marie-Francine Moens, Caroline Uyttendaele, Jos Dumortier Proceedings of the sixth international conference on Artificial intelligence and law June 1997
- 26 Thread partitioning and scheduling based on cost model 77%

  Yinan Tang 1 Wang Keyin B Theobald Guang B Gao

Xinan Tang , J. Wang , Kevin B. Theobald , Guang R. Gao Proceedings of the 9th annual ACM symposium on Parallel algorithms and architectures June 1997

**27** Detection of shifts in user interests for personalized information 77%

- filtering
  W. Lam , S. Mukhopadhyay , J. Mostafa , M. Palakal
  Proceedings of the 19th annual international ACM SIGIR conference on
  Research and development in information retrieval August 1996
- **28** The GOMS family of user interface analysis techniques 77%



Bonnie E. John , David E. Kieras

ACM Transactions on Computer-Human Interaction (TOCHI) December
1996

Volume 3 Issue 4

Sine the publication of The Psychology of Human-Computer Interaction, the GOMS model has been one of the most widely known theoretical concepts in HCI. This concept has produced severval GOMS analysis techniques that differ in appearance and form, underlying architectural assumptions, and predictive power. This article compares and contrasts four popular variantsof the GOMS family (the Keystroke-Level Model, the original GOMS formulation, NGOMSL, and CPM-GOMS) by applying t ...

**29** Object distribution in Orca using Compile-Time and Run-Time 77% techniques

Henri E. Bal, M. Frans Kaashoek ACM SIGPLAN Notices, Proceedings of the eighth annual conference on Object-oriented programming systems, languages, and applications October 1993 Volume 28 Issue 10

**30** Effective clustering of complex objects in object-oriented

77%

d databases

Jia-Bing R. Cheng , A. R. Hurson ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data April 1991 Volume 20 Issue 2

31 Statistical estimators for aggregate relational algebra queries

77%

Wen-Chi Hou , Gultekin Ozsoyoglu

ACM Transactions on Database Systems (TODS) December 1991 Volume 16 Issue 4

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**1** Authoring Support: Automatic detection of 'Goal' segments in বী basketball videos

80%

Surya Nepal, Uma Srinivasan, Graham Reynolds Proceedings of the International Conference on Multimedia September 2001

Publication Date Score

Advances in the media and entertainment industries, for example streaming audio and digital TV, present new challenges for managing large audio-visual collections. Efficient and effective retrieval from large content collections forms an important component of the business models for content holders and this is driving a need for research in audio-visual search and retrieval. Current content management systems support retrieval using low-level features, such as motion, colour, texture, beat and ...

2 MAESTRO

77%

A CORPORATE The SRI MAESTRO Team Communications of the ACM February 2000 Volume 43 Issue 2

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Acquisition of terminological knowledge using database design 82% techniques

Christoph F. Eick , Peter C. Lockemann Proceedings of the 1985 international conference on Management of data May 1985

2 Authoring Support: Automatic detection of 'Goal' segments in 80% basketball videos

Surya Nepal , Uma Srinivasan , Graham Reynolds Proceedings of the International Conference on Multimedia September 2001

Advances in the media and entertainment industries, for example streaming audio and digital TV, present new challenges for managing large audio-visual collections. Efficient and effective retrieval from large content collections forms an important component of the business models for content holders and this is driving a need for research in audio-visual search and retrieval. Current content management systems support retrieval using low-level features, such as motion, colour, texture, beat and ...

**3** Switch level random pattern testability analysis

80%

Mehmet A. Cirit
Proceedings of the

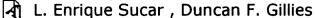
Proceedings of the 25th ACM/IEEE conference on Design automation June 1988



We present a new statistical, probabilistic algorithm for calculating controllability and observability for signal nets assuming the circuit can be described as a directed graph of unidirectional MOS switches. Application of the new algorithms to the testability analysis of CMOS circuits is described.

**4** Knowledge-based assistant for colonscopy

77%



Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems June 1990

Endoscopy is a complex task in which an expert physician is required to guide the endoscope inside the human colon. The objective of this system is to develop a computer assistant that could help the doctor with the navigation of the endoscope inside the colon, serving as an advisory system for learning endoscopists. A knowledge-base (KB) in colon endoscopy has been compiled from the knowledge extracted from an expert colonoscopist. It includes knowledge for colon image interpret ...

5 Steady-state simulation of queueing processes: survey of

77%

problems and solutions

Krzysztof Pawlikowski

ACM Computing Surveys (CSUR) June 1990

Volume 22 Issue 2

For years computer-based stochastic simulation has been a commonly used tool in the performance evaluation of various systems. Unfortunately, the results of simulation studies quite often have little credibility, since they are presented without regard to their random nature and the need for proper statistical analysis of simulation output data. This paper discusses the main factors that can affect the accuracy of stochastic simulations designed to give insight into the steady-st ...

Deep models, normative reasoning and legal expert systems

77%



Proceedings of the second international on conference on Artificial Intelligence And Law May 1989

This paper discusses the role of deep models and deontic logic in legal expert systems. Whilst much research work insists on the importance of both these features, legal expert systems are being built using shallow models and no more propositional logic, and are claimed to be successful in use. There is then a prima facie conflict between findings of research and commercial practice, which this paper explores, and attempts to explain.

**7** EMIR: an expert system for electromagnetic interference resolution

77%

J. E. Bowen , B. A. Boewn

Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems June 1989

The increasing density and complexity of modern radio communications systems and the crowded electromagnetic environment make electromagnetic interference (EMI) a growing concern. To ensure electromagnetic compatibility (EMC) in Transport Canada (TC) installations, such as airports and air traffic control centres, improved methods for systems design, installation and maintenance are required. When Electromagnetic Interference is found to be a problem, immediate steps are taken to identify a ...

8 Equality-based binary resolution

77%

Vincent J. Digricoli , Malcolm C. Harrison Journal of the ACM (JACM) April 1986 Volume 33 Issue 2

A major event in automated reasoning was the introduction by Robinson of resolution as an inference principle that is complete for the first-order predicate calculus. Here the theory of binary resolution, based strictly on unification, is recast to incorporate the axioms of equality. Equality-based binary resolution is complete without making use of paramodulation and leads to refutations that are less than half as long as standard refutations with the equality axioms. A detailed discussion ...

9 Papers: Expressive user interfaces: Voice as sound

77%

Takeo Igarashi , John F. Hughes

Proceedings of the 14th symposium on Proceedings of the 14th annual ACM symposium on user interface software and technology November 2001

We describe the use of non-verbal features in voice for direct control of interactive applications. Traditional speech recognition interfaces are based on an indirect, conversational model. First the user gives a direction and then the system performs certain operation. Our goal is to achieve more direct, immediate interaction like using a button or joystick by using lower-level features of voice such as pitch and volume. We are developing several prototype interaction techniques based on this i ...

**10** A system for semantic query optimization

77%



Sreekumar T. Shenoy , Z. Meral Ozsoyoglu
ACM SIGMOD Record , Proceedings of the ACM SIGMOD Annual
Conference on Management of data December 1987
Volume 16 Issue 3

This paper describes a scheme to utilize semantic integrity constraints in optimizing a user specified query. The scheme uses a graph theoretic approach to identify redundant join clauses and redundant restriction clauses specified in a user query. An algorithm is suggested to eliminate such redundant joins and avoid unnecessary restrictions. In addition to these eliminations, the algorithm aims to introduce as many restrictions on indexed attributes as possible, thus yielding an equivalent ...

11 The keystroke-level model for user performance time with

77%

interactive systems

Stuart K. Card, Thomas P. Moran, Allen Newell Communications of the ACM July 1980 Volume 23 Issue 7

12 Korean text summarization using an aggregate similarity

77%

- Jae-Hoon Kim , Joon-Hong Kim , Dosam Hwang
  Proceedings of the fifth international workshop on on Information retrieval with Asian languages November 2000
- **13** Timely and fault-tolerant data access from broadcast disks

77%

- Sanjoy Baruah , Azer Bestavros
  Proceedings of the workshop on on Databases : active and real-time
  November 1996
- **14** CHECK 77%
- Antonio Si, Hong Va Leong, Rynson W. H. Lau Proceedings of the 1997 ACM symposium on Applied computing April 1997
- **15** Heuristic approach for generic audio data segmentation and 77%
- annotation
  Tong Zhang , C.-C. Jay Kuo

Proceedings of the seventh ACM international conference on Multimedia (Part 1) October 1999

A real-time audio segmentation and indexing scheme is presented in this paper. Audio recordings are segmented and classified into basic audio types such as silence, speech, music, song, environmental sound, speech with the music background, environmental sound with the music background, etc. Simple audio



features such as the energy function, the average zero-crossing rate, the fundamental frequency, and the spectral peak track are adopted in this system to ensure on-line processing. Morphol ...

**16** PEARL 77%

Edward J. DeJesus , James P. Callan , Curtis R. Whitehead Proceedings of the 23rd ACM/IEEE conference on Design automation July 1986

The use of artificial intelligence (AI) expert systems technology has demonstrated its advantages with many new tools in the computer aided design (CAD) field. This paper describes how domain specific knowledge was integrated with a conventional CAD architecture to develop an expert system. The combination resulted in a tool that provides intelligent assistance to printed wiring board (PWB) layout designers. This CAD tool focuses entirely on the layout requirements of power suppl ...

**17** Adapting to user preferences in crisis response

77%

Wayne Iba , Melinda Gervasio
Proceedings of the 1999 international conference on Intelligent user interfaces December 1998

**18** Algebraic equivalences among nested relational expressions

77%

Hong-Chen Liu, K. Ramamohanarao
Proceedings of the third international confe

Proceedings of the third international conference on Information and knowledge management November 1994

Algebraic optimization is both theoretically and practically important for query processing in (nested) relational databases. In this paper, we consider this issue and investigate some algebraic properties concerning the nested relational operators. We also outline a heuristic optimization algorithm for nested relational expressions by adopting algebraic transformation rules developed in this paper and previous related work.

19 Why TCP timers don't work well

77%

1 L Zhang

Proceedings of the ACM SIGCOMM conference on Communications architecture & protocols September 1986

Repeated observation of TCP retransmission timer problems stimulated investigation into the roles and limitations of timers. Timers are indispensable tools in building up reliable distributed systems. However, as the experience with the TCP retransmission timer has shown, timers have intrinsic limitations in offering optimal performance. Any timeout based action is a guess based on incomplete information, and as such is bound to be non-optimal.



We conclude that, if we aim at high performanc ...

**20** Technique for automatically correcting words in text

77%

Karen Kukich

ACM Computing Surveys (CSUR) December 1992 Volume 24 Issue 4

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

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